

## STIC Biotechnology Systems Branch

### RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

Source:

Date Processed by STIC:

10/574,469  
EFS  
4-17-06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebs/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05): U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06



IFWP

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/574,469

DATE: 04/17/2006  
TIME: 12:29:11

Input Set : A:\SQ-AIA-113.ST25.txt  
Output Set: N:\CRF4\04172006\J574469.raw

3 <110> APPLICANT: Aoki, Hirofumi  
4 Kodama, Tatsuhiko  
5 Hasegawa, Kiyotaka  
6 Kajiya, Kentaro  
7 Ishimatsu, Yumiko  
8 Ogou, Masashi  
9 Yoshida, Seiichi  
10 Kishimoto, Jiro  
11 Moro, Osamu  
12 <120> TITLE OF INVENTION: Methods for Predicting Skin Stain Formation and for  
Screening  
14 Agent Capable of Inhibiting Skin Stain Formation by Means of  
15 Promoted Genes in Stained Regions as an Indicator  
17 <130> FILE REFERENCE: AIA-113-PCT  
C--> 19 <140> CURRENT APPLICATION NUMBER: US/10/574,469  
C--> 19 <141> CURRENT FILING DATE: 2006-03-31  
19 <150> PRIOR APPLICATION NUMBER: JP 2003-343549  
20 <151> PRIOR FILING DATE: 2003-10-01  
22 <150> PRIOR APPLICATION NUMBER: JP 2003-344786  
23 <151> PRIOR FILING DATE: 2003-10-02  
25 <160> NUMBER OF SEQ ID NOS: 7  
27 <170> SOFTWARE: PatentIn version 3.3  
29 <210> SEQ ID NO: 1  
30 <211> LENGTH: 758  
31 <212> TYPE: DNA  
32 <213> ORGANISM: Mouse  
35 <220> FEATURE:  
38 <400> SEQUENCE: 1  
W--> 39 aaacntttt cgtggcacag ctctctccct aggcgtgaga ctccggctcc ttcactatga 60  
41 gacttctagc cctttccggt ctgctctgca tgctgtctct ctgtttctgc attttctctc 120  
43 cagaagggag aagacatcct gccaaagtct tgaaactcag gcgtgtgtgt cacctatctc 180  
45 ctgatccaa gctgacaacc tggaaaggaa accacacaag gccctgcaga ctctgcagaa 240  
47 acaagctacc agtcaagtca tgggtggtgc ctggggctct cccacagata tagggcctcc 300  
49 tccgcccaga tgaagcgttg atgcccgat gtggagacac cagaagcata cacactatgt 360  
51 tgccctgccc cttgccaatg agctgtgaca ctggaatgct tcacttcaga catcagggcg 420  
53 gatggattgc agaattccaa gtcctcattc caaagggtgc accaaccttc agagtcacta 480  
55 aggtccaggc tcagcccaca agtcaccatg gtcctccag agtaaaagtc caagattcca 540  
57 cctgtgggag ctacagatcc agagactttc aagctgacta gagtgcagag aagcaagacc 600  
59 tcagtgtgat cagccgagac tacagcatct tgggaacctc cagtcagccc caaaccctta 660  
61 acacttaacc actggtctcc aaaccaacac ctgtaacttc ctaatgaaat catcaggagg 720  
63 ataccaaaag aaataaacca taaatcagca tacacacg 758  
66 <210> SEQ ID NO: 2  
67 <211> LENGTH: 2063  
68 <212> TYPE: DNA

Dres Not Comply  
Corrected Diskette Needed  
(PS.1)

see error explanation on  
page 5.

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/574,469

DATE: 04/17/2006  
TIME: 12:29:11

Input Set : A:\SQ-AIA-113.ST25.txt  
Output Set : N:\CRF4\04172006\J574469.raw

69 <213> ORGANISM: Homo sapiens

71 <400> SEQUENCE: 2

72	ctctgccc	at	tgggaa	acac	ctctct	atga	ctctata	aat	gtcca	agg	tg	gcccc	aagg	g	60
74	aggact	tctg	cagcac	agct	ccctt	ccc	ag	gacgt	gaaaa	tctgc	cttct	caccat	gagg		120
76	cttctag	tcc	tttcc	agcct	gctct	gtatc	ctgctt	ctct	gcttct	ccat	cttct	ccaca			180
78	gaaggga	aaga	ggcgt	cctgc	caagg	cctgg	tcagg	cagga	gaacc	aggct	ctgct	gccac			240
80	cgagtc	cccta	gcccc	aactc	aacaaa	ccctg	aaagg	acatc	atgtg	aggct	ctgta	aacca			300
82	tgcaag	cttg	agccag	agcc	ccgcct	tttgg	gtggt	gctg	gggca	ctccc	acagg	tgtag			360
84	cactcc	caaa	gcaag	actcc	agacag	cggga	gaacct	catg	cctgg	cacct	gagg	tacca			420
86	gcagct	cctc	gtctccc	ctt	tcagc	cttca	cagcag	tga	ctgca	atggt	ggagg	gcttc			480
88	atctc	gggct	gcaag	gaccc	tggg	aaagt	ccaga	aactc	acgtc	cttgt	ctcaat	tgtg			540
90	ccatca	aactt	tcagag	ctat	catga	gccaa	cctcag	cctt	ccgag	tagct	ggg	attac	ag		600
92	gtgtgc	gcca	ccacacc	cg	ctaatt	ttttg	cttttt	tttt	tttg	agaca	gaatc	tcgct			660
94	ctgttg	ctca	ggctgg	agtg	gagtg	cagtg	gcacg	atctc	agctc	actgc	agcct	ctgcc			720
96	tcccg	gggttc	aggag	attct	cctgac	tcaa	cctcct	gagt	agctg	ggg	att	acagg	tgcct		780
98	gccact	atgc	ctagct	aatt	tttgt	atttt	tagtg	gagac	gggg	ttttg	cgtgt	tggcc			840
100	ggggt	gggtct	cgaact	cctg	acctc	aaagt	atccacc	cg	atcgg	cccc	caaag	tgtctg			900
102	ggattat	agg	cgtga	accac	cgcgc	cctgtc	ccattg	tgt	gtaatt	tttaa	taatt	tagttt			960
104	tttaagt	act	tgatttt	atg	ggc	atattt	tgtgg	gatga	tggag	tttaa	tcaaat	aaag			1020
106	cttgc	atctg	gtttag	tttg	gtaag	ataac	ttctt	taaat	tcatg	ttttc	tctgc	cttga			1080
108	ggtagt	gagg	gaaag	atctt	aatcag	tatt	ttggt	aatta	actga	ttgaa	ttcaag	caaaa			1140
110	tgagac	atca	tgaact	tcag	tgggt	tattga	tatttc	cagg	tata	acctg	aaatg	cctag			1200
112	aggata	caga	tttct	cat	ttt	cttgg	tcttt	cattt	ctctat	atac	agaa	atgaaa			1260
114	tgacac	ttct	gggagg	cagt	agaag	cagga	agtca	atgaa	ttgag	tagag	ggtccc	attc			1320
116	cctcag	gctg	tcatt	gatca	gtgac	aat	ataaaa	acaa	actgc	aaagt	ctgtg	gcaag			1380
118	tggctg	cctg	cttcct	tagaa	ggagc	ccatg	aagg	ttaaac	tctgt	ggtcg	gtatt	tgc			1440
120	gcgcg	ggcg	tgg	tggtc	ca	gcctg	ta	at	cctag	cacct	tggg	aggcca	aggc	aggcg	1500
122	atcac	ccgag	gtcag	gag	tt	tgagg	attg	caag	caaaa	ag	gtcct	ctcct	gagt	ctttc	1560
124	cagata	ccca	gcagt	gcaga	ggct	agctgt	ggaag	gttgc	agtgg	gacag	gaatg	tattg			1620
126	tatgc	cttgc	cttact	ttgtc	accatt	tgaga	tttcc	agaga	aatgg	gcata	acgtc	ctctta			1680
128	acaaca	acag	cagaa	agcaa	aatac	attaa	cttaag	gttg	acaaca	aaaag	attat	caagt			1740
130	accatg	tttt	ccaacca	aacc	agttat	tcgt	ggta	ataata	aaataa	aagg	gggaa	aatgt			1800
132	tataa	tttt	aaggaa	actg	tgtact	ttta	aaatc	ttctt	tatga	atatac	caatg	ttact			1860
134	gtaat	cctgc	tccatt	aaat	gcagc	attgt	tgtc	agg	tg	cctct	tg	tg	ggga	acag	1920
136	cattg	gggctt	ttaaat	gtct	gcaga	atctc	tgcgt	tcgaa	ggga	attgag	aatga	acttc			1980
138	ctggt	tactgt	aatgaaa	ata	aggtc	tgctc	aacac	agtaa	acgtt	ctctc	tctt	ctttta			2040
140	aaaaaaaa	aaaaaaaa	aaa												2063

143 <210> SEQ ID NO: 3

144 <211> LENGTH: 742

145 <212> TYPE: DNA

146 <213> ORGANISM: Rat

148 <400> SEQUENCE: 3

149	tttttt	tgtg	ccact	gcttc	ctctc	tagcc	gtgag	actcc	agctac	ttca	ctatg	cgact			60
151	tctcac	cctc	tccg	gttt	gt	tctcat	gct	gttct	ctgt	ctctg	cttc	ctcaga			120
153	aggg	agaaa	ag	ctc	tgcca	agttccc	gaa	actcag	gcct	gctgt	catct	atctc	ctaga		180
155	tccaa	accaa	taact	ggaaa	ggaa	accaca	caag	accctg	cagac	catgc	agaa	agctag			240
157	aatcca	attc	atggg	gtgt	gcctg	gggct	ctccc	acaga	tatag	ggcct	cccga	agctg			300
159	gcctc	ccag	agatg	aaacg	ttgat	gtcca	gttat	ggaga	caact	ttctg	gccct	tacca			360
161	accttc	catgg	ccagaa	agct	gtgac	accag	aatgt	ttcac	ttcag	acagc	tgaag	gatta			420

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/574,469

DATE: 04/17/2006  
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Input Set : A:\SQ-AIA-113.ST25.txt  
Output Set: N:\CRF4\04172006\J574469.raw

```

163 cagaattcca agccctcggt ccaaagggtgc aaccaacctt cagagtcact atgatccagg 480
165 gtcagcccac aagtcttcat ggctcctgca gagtaaaagt ccaagattcc atccctggga 540
167 gctacagatt cagagacttc caagctgact ggcgaacaga gtagcaagac ttccttgtga 600
169 tcagatgaga ttacagcatc ttaggaaccc tcggacaccc ccaaaccatc agcatttaat 660
171 caacgggata tgaaccaact cctgtaactt cctaattgtg tcaccaggag aacacaaaaa 720
173 ataataaatc ataatcaat gt 742
176 <210> SEQ ID NO: 4
177 <211> LENGTH: 20
178 <212> TYPE: DNA
179 <213> ORGANISM: Artificial
181 <220> FEATURE:
182 <223> OTHER INFORMATION: Sense Primer
184 <400> SEQUENCE: 4
185 ttctttgcct gctgctcata 20
188 <210> SEQ ID NO: 5
189 <211> LENGTH: 20
190 <212> TYPE: DNA
191 <213> ORGANISM: Artificial
193 <220> FEATURE:
194 <223> OTHER INFORMATION: Antisense Primer
196 <400> SEQUENCE: 5
197 gacaaggatg agaaaacacg 20
200 <210> SEQ ID NO: 6
201 <211> LENGTH: 20
202 <212> TYPE: DNA
203 <213> ORGANISM: Artificial
205 <220> FEATURE:
206 <223> OTHER INFORMATION: Sense Primer
208 <400> SEQUENCE: 6
209 actccggctc cttcactatg 20
212 <210> SEQ ID NO: 7
213 <211> LENGTH: 20
214 <212> TYPE: DNA
215 <213> ORGANISM: Artificial
217 <220> FEATURE:
218 <223> OTHER INFORMATION: Antisense Primer
220 <400> SEQUENCE: 7
221 ctttggaatg aggacttgga 20

```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/574,469

DATE: 04/17/2006  
TIME: 12:29:12

Input Set : A:\SQ-AIA-113.ST25.txt  
Output Set: N:\CRF4\04172006\J574469.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 6

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:4,5,6,7

VARIABLE LOCATION SUMMARY  
PATENT APPLICATION: US/10/574,469

DATE: 04/17/2006  
TIME: 12:29:12

Input Set : A:\SQ-AIA-113.ST25.txt  
Output Set: N:\CRF4\04172006\J574469.raw

Use of n's or Xaa's (NEW RULES):

*Error Explanation: 2*  
Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.  
in <220> to <223> section, please explain location of n or Xaa, and which  
residue n or Xaa represents.

Seq#:1; N Pos. 6

**VERIFICATION SUMMARY**

**PATENT APPLICATION: US/10/574,469**

**DATE: 04/17/2006**

**TIME: 12:29:12**

**Input Set : A:\SQ-AIA-113.ST25.txt**

**Output Set: N:\CRF4\04172006\J574469.raw**

L:19 M:270 C: Current Application Number differs, Replaced Current Application No  
L:19 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:39 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:1  
L:39 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:1  
L:39 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:1  
L:39 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0